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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,192	10/31/2003	James K. Middlebrook	31254-2	9975

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EXAMINER

TRIEU, THAI BA

ART UNIT	PAPER NUMBER
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3748

DATE MAILED: 06/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/698,192

Applicant(s)

MIDDLEBROOK ET AL.

Examiner

Thai-Ba Trieu

Art Unit

3748

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on 18 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5-7, 19 and 21-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-3 and 5-7 is/are allowed.
- 6) ☒ Claim(s) 16, 19 and 21-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 05/17/2005.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

In view of newly discovery prior art, the indicated allowable subject matter of claims 1-3, 5-7, 19, and 21-26 has been withdrawn. A new Non-Final rejection set forth below.

#### *Claim Objections*

Claims 24 and 26 are objected to because of the following informalities:

- Claims 24 and 26, line 5 – **selective** – should be inserted before “**disengagement**”; and “**and re-engagement**” should be deleted.

Appropriate correction is required.

#### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

***Claims 19, 21-24, and 26 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Williams (Patent Number 5,669,336).***

Williams discloses a device comprising:

an impeller (24) (See Figure 1);

a drive pulley (28) coupled to the supercharger (See Figure 1, Column 4, line 5-12);

a disengagement device (18) disposed between the impeller (24) and the drive pulley (28) (See Figure 1);

wherein the disengagement device (18) permits selective disengagement between the impeller (24) and the drive pulley (28) (See Figure 1);

wherein the impeller (24) is disengaged from the drive pulley during deceleration (See Figure 1, Column 3, lines 24-26, and Column 4, lines 47-51);

wherein the disengagement device (18) comprises a one-way clutch and is to be a sprag or overrunning clutch (See Figure 1, Column 3, lines 2-11 and lines 43-58);

wherein the disengagement device (18) comprises a speed-sensitive mechanism (See Column 3, lines 2-11);

wherein the disengagement device is coupled to the drive pulley (via 14 and 30) (See Figure 1).

Note that Williams does not disclose a supercharger, however, the Williams fan is capable of performing the same function of compressing air as a supercharger does.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

Art Unit: 3748

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

***Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Williams (Patent Number 5,669,336), in view of Thompson (Patent Number 2,718,952).***

Williams discloses the invention as recited above; however, Williams fails to disclose the disengagement device comprising a centrifugal clutch.

Thompson teaches that it is conventional in the combination art of the centrifugal clutch and pulley structure, to utilize the disengagement device comprising a centrifugal clutch (10) (See Figure 1-3).

It would have been obvious to one having ordinary skill in the art at that time the invention was made, to have utilized the disengagement device comprising a centrifugal clutch, as taught by Thompson, to improve the efficiency of the Williams device.

#### ***Allowable Subject Matter***

Claims 1-3 and 5-7 allowed.

#### ***Conclusion***

The IDS (PTO-1449) filed on May 17, 2005 has been considered. An initialized copy is attached hereto.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Kerr (US patent Number 6,129,189) discloses a spiral type one-way clutch.
- Waseige (US patent Number 2,077,292) discloses a centrifugal clutch.
- Younggren et al. (US patent Number 6,569,043 B2) disclose a clutch with one-way torque carrying bearing.
- Burgess (US patent Number 6,637,830 B1) discloses a spinable wheel cover.
- Spase et al. (Patent number 2,678,031) discloses a radiator fan and coolant impeller speed control mechanism.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai-Ba Trieu whose telephone number is (571) 272-4867. The examiner can normally be reached on Monday - Thursday (6:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion can be reached on (571) 272-4859. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

Application/Control Number: 10/698,192

Page 6

Art Unit: 3748

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTB  
June 01, 2005

A handwritten signature in black ink, appearing to read 'Thai-Ba Trieu', with a long horizontal stroke extending to the right.

Thai-Ba Trieu  
Primary Examiner  
Art Unit 3748